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MILA KASAN, PATENT DEPT.			BERTAGNA, ANGELA MARIE	
APPLIED BIOSYSTEMS			ART UNIT	PAPER NUMBER
850 LINCOLN CENTRE DRIVE				1637
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09/12/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/780,963	Applicant(s) LAU ET AL.
	Examiner ANGELA BERTAGNA	Art Unit 1637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 03 July 2008.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-74,76-84,86 and 87 is/are pending in the application.
- 4a) Of the above claim(s) 1-20,25-44 and 50-65 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 21-24,45-49,66-74,76-84,86 and 87 is/are rejected.
- 7) Claim(s) 68 and 78 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Status of the Application

1. Applicant's response filed on July 3, 2008 is acknowledged. Claims 1-74, 76-84, 86, and 87 are currently pending. In the response, Applicant amended claims 21, 45, 71-73, and 81-83 and added claims 86 and 87. Claims 1-20, 25-44, and 50-65 are withdrawn from consideration as being drawn to a non-elected invention.

Applicant's amendments to the claims have overcome all of the previously made rejections, and therefore, they have been withdrawn.

The following are new grounds of rejection necessitated by Applicant's amendments to the claims. Accordingly, this Office Action is made FINAL.

Claim Objections

2. Claims 68 and 78 are objected to because of the following informalities: These claims appear to contain a typographical error. Replacement of "comprises of" with "comprises" is suggested.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 21, 22, 24, 45, 46, 48, 49, 66-69, and 76-79 are rejected under 35 U.S.C. 102(a) and 35 U.S.C. 102(e) as being anticipated by Hennessy et al. (US 2004/0016702 A2; newly cited).

Regarding the rejection under 35 U.S.C. 102(e), the applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention “by another,” or by an appropriate showing under 37 CFR 1.131.

These claims are drawn to methods of purifying PCR and DNA sequencing products using particles comprising a core for ion exchange and a polyelectrolyte coating comprising at least one charged monomer and at least one neutral co-monomer.

Regarding claims 21 and 45, Hennessy teaches a method for purifying PCR reaction products or DNA sequencing reaction products, comprising:

(a) providing a plurality of particles, wherein each particle comprises an ion-exchange core coated by exposing the core to a polyelectrolyte copolymer comprising at least one type of charged monomer and at least one type of neutral co-monomer (see paragraphs 25-29, 36, 37, and 68)

(b) providing a mixture of cationic ion-exchange particles and anionic ion-exchange particles, wherein the plurality of particles are either the cationic ion-exchange particles or the anionic ion-exchange particles (paragraph 26, 37, 60, and 77)

(c) contacting the PCR reaction products or DNA sequencing reaction products with the plurality of particles of step (a) to separate and purify the dsDNA fragments or dye-labeled ssDNA fragments, respectively (see paragraphs 28, 29, 36, 47, 62, 70, 71, 79, and 80).

Regarding claims 22 and 46, Hennessy teaches that the contacting comprises moving the PCR reaction products or the DNA sequencing reaction products through the particles using centripetal force (paragraph 29, where spin columns are taught).

Regarding claim 24, Hennessy teaches that the method of claim 21 further comprises positioning a mixture comprising the plurality of particles in a column (see paragraphs 26-29).

Regarding claim 48, Hennessy teaches that the method of claim 45 further comprises removing residual dye artifacts (paragraphs 36, 71, and 80).

Regarding claim 49, Hennessy teaches that the method of claim 45 further comprises maintaining dye-labeled ssDNA fragment length (paragraphs 36, 71, and 80).

Regarding claims 66 and 76, Hennessy teaches coupling of the ion-exchange core with a PCR reaction product, such as dNTPs or primers (paragraph 79) or a DNA sequencing reaction product, such as dye-labeled nucleotides or salts (paragraphs 71 and 80).

Regarding claims 67 and 77, Hennessy teaches that the particle is adapted to substantially exclude dsDNA fragments having greater than 100 basepairs (paragraph 79) or ssDNA fragments greater than 45 nucleotides in length (paragraph 71).

Regarding claims 68 and 78, Hennessy teaches that the core comprises porous ion-exchange material (paragraphs 73-75).

Regarding claims 69 and 79, Hennessy teaches that the ion-exchange material is surface-activated (paragraphs 40 and 73).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 23, 47, 70-72, 80-82, 86, and 87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hennessy et al. (US 2004/0016702 A2; newly cited).

Claim 23 is drawn to the method of claims 21, wherein the plurality of particles comprise a first volume and the PCR products comprise a second volume that is less than or equal to the

first volume. Claim 47 is drawn to the method of claim 45, respectively, wherein the plurality of particles comprise a first volume and the DNA sequencing reaction products comprise a second volume that is greater than or equal to the volume of the plurality of particles. Claims 70-72 and 80-82 further limit the pore size of the ion-exchange material and the molecular weight of the polyelectrolyte copolymer material. Claims 86 and 87 recite that the polyelectrolyte copolymer is present in the particles within a given range of concentrations.

Hennessy teaches the method of claims 21, 22, 24, 45, 46, 48, 49, 66-69, and 76-79, as discussed above.

Regarding claims 23 and 47, Hennessy does not specify volumes at which the particles, DNA sequencing products, or the PCR products should be used

Regarding claims 70-72 and 80-82, Hennessy teaches that the ion-exchange material has a pore size less than or equal to 1000 Angstroms, from 100 Angstroms to 1000 Angstroms, or less than or equal to 100 Angstroms (paragraph 73). These ranges overlap with the claimed range of 100 Angstroms to 2000 Angstroms (claim 70), 5 Angstroms to 1000 Angstroms (claim 80), and 10 Angstroms to 50 Angstroms (claim 82).

Hennessy does not teach specific molecular weights for the polyelectrolyte copolymer material as required by claims 71, 72, 81, and 82. Hennessy also does not teach the molar percentage of the charged monomer in the polyelectrolyte copolymer material as required by claims 86 and 87.

It would have been *prima facie* obvious for one of ordinary skill in the art at the time of invention to optimize the following results-effective variables when practicing the method taught by Hennessy: (1) the volume of the particles, PCR products, and DNA sequencing products, (2)

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the pore size of the ion-exchange material, (3) the molecular weight of the polyelectrolyte copolymer material, and (4) the molar percentage of the charged monomer in the polyelectrolyte copolymer material. An ordinary artisan would have recognized that optimization of these results-effective variables was critical for successful practice of the method taught by Hennessy, and therefore, would have been motivated to optimize the aforementioned results-effective variables using routine experimentation with a reasonable expectation of success. As noted in MPEP 2144.05, optimization of results-effective variables using routine experimentation is *prima facie* obvious in the absence of unexpected results. In this case, there is no evidence to suggest that the selection of the claimed volumes, pore sizes, molecular weights, or molar percentages was other than routine or that the results should be considered unexpected compared to the prior art of Hennessy. Thus, the methods of claims 23, 47, 70-72, 80-82, 86, and 87 are *prima facie* obvious over Hennessy in the absence of secondary considerations.

7. Claims 73, 74, 83, and 84 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hennessy et al. (US 2004/0016702 A2; newly cited) in view of Breadmore et al. (WO 03/104774 A1; cited previously).

Claims 73, 74, 83, and 84 are drawn to the methods of claims 21 and 45, further wherein the polyelectrolyte coating comprises polyanions and polycations added in alternating layers.

Hennessy teaches the method of claims 21, 22 24, 45, 46, 48, 49, 66-69, and 76-79, as discussed above.

Hennessy does not teach that the polyelectrolyte coating is comprised of alternating layers of polyanions and polycations.

Breadmore teaches a method of nucleic acid purification using silica-based extraction procedures (see pages 1-2 for a general description). Regarding claims 73, 74, 83, and 84, Breadmore teaches increasing the yield of the purification method by modifying the silica surface with polyelectrolytes. Specifically, Breadmore teaches that the stability of the adsorbed polyelectrolyte layer can be improved by using multiple layers. Breadmore further teaches coating the silica particles with a cationic polymer followed by a second coating with an anionic polymer and repeating this process to form a multilayer (see page 13).

It would have been *prima facie* obvious for one of ordinary skill in the art to coat the particles taught by Hennessy with multiple alternating layers of polycations and polyanions, since Breadmore taught that such treatment improved the stability of the adsorbed polyelectrolyte layer (see page 13, cited above). Breadmore also taught that such modifications of silica-based resins improved purification yields (see page 13), thereby providing additional motivation for an ordinary artisan to coat the particles taught by Hennessy with multiple alternating layers of polycations and polyanions. Since the resins taught by Breadmore were used for purification of nucleic acids, including PCR and DNA sequencing reaction products (page 2, lines 1-4), an ordinary artisan would have expected a reasonable level of success in using the resulting particles coated with multiple alternating layers of polyelectrolytes in the method taught by Hennessy. Thus, the methods of claims 73, 74, 83, and 84 are *prima facie* obvious over Hennessy in view of Breadmore.

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or

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improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 45, 80-82, and 87 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 8, 21, and 29-36 of copending Application No. 11/057,936 in view Hennessy et al. (US 2004/0016702 A1; newly cited).

The instant claims 45, 80-82, and 87 are drawn to a method for purifying DNA sequencing reaction products using a plurality of particles having an ion-exchange core coated with a polyelectrolyte copolymer comprising at least one charged monomer and at least one neutral co-monomer.

Claims 8, 21, 30, 31, 34, and 35 of the '936 application recite a method for DNA sequencing comprising contacting sequencing reaction products with particles comprising an ion exchange core coated with a polyelectrolyte copolymer comprising at least one positively or negatively charged monomer and at least one neutral co-monomer, isolating the particles, and

sequencing the purified sequencing products. The claims of the '936 application recite all of the limitations of the instant claim 45 with the exception of providing a mixture of cationic and anionic ion exchange particles. Regarding the instant claims 80-82, claims 32 and 36 of the '936 application recite that the polyelectrolyte copolymer material has an average molecular weight of between about 1000 Da to about 6.0 MDa. This range overlaps with the instantly claimed ranges. The limitations of the instant claim 87 are recited in claims 29 and 33 of the '936 application.

It would have been *prima facie* obvious for one of ordinary skill in the art to provide a mixture of cationic and anionic ion-exchange particles when practicing the method recited in claims 8, 21, and 29-36 of the '936 application. An ordinary artisan would have been motivated to do so, because Hennessy taught that when a mixture of anionic and cationic ion exchange particles was used to purify a sample, the counterions of the anionic and cationic ion exchange particles reacted to form a neutral molecule, such as water, that did not affect down-stream processing of the sample (see paragraph 77). Based on these teachings of Hennessy, an ordinary artisan would have recognized that using a mixture of cationic and anionic ion exchange particles to purify DNA sequencing reaction products would have improved the purification method recited in claims 8, 21, and 29-36 of the '936 application by neutralizing counterions released by the polyelectrolyte-coated anion exchange particles during the purification.

Also, regarding the instant claims 80-82, it would have been *prima facie* obvious for one of ordinary skill in the art at the time of invention to optimize the pore size of the ion-exchange material and the molecular weight of the polyelectrolyte copolymer material when practicing the method recited in claims 8, 21, and 29-36 of the '936 application. An ordinary artisan would

have recognized that optimization of these results-effective variables was critical for successful practice of the method recited in claims 8, 21, and 29-36 of the '936 application, and therefore, would have been motivated to optimize the aforementioned results-effective variables using routine experimentation with a reasonable expectation of success. As noted in MPEP 2144.05, optimization of results-effective variables using routine experimentation is *prima facie* obvious in the absence of unexpected results. In this case, there is no evidence to suggest that the selection of the claimed volumes, pore sizes, molecular weights, or molar percentages was other than routine or that the results should be considered unexpected. Thus, the methods of claims 45, 80-82, and 87 are an obvious variant of the method recited in claims 8, 21, and 29-36 of copending application 11/057,936 in view of Hennessy in the absence of secondary considerations.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

10. Claims 45, 80-82, and 87 are directed to an invention not patentably distinct from claims 8, 21, and 29-36 of commonly assigned Application No. 11/057,936. Specifically, as discussed above, the instant claims 45, 80-82, and 87 are an obvious variant of the method recited in claims 8, 21, and 29-36 of the '936 application in view of Hennessy.

The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP Chapter 2300). Commonly assigned Application No. 11/057,936, discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as

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prior art under 35 U.S.C. 102(e), (f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee can, under 35 U.S.C. 103(c) and 37 CFR 1.78(c), either show that the conflicting inventions were commonly owned at the time the invention in this application was made, or name the prior inventor of the conflicting subject matter.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications pending on or after December 10, 2004.

11. Claims 45, 80-82, and 87 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 12, 15, 21, 22, and 28-35 of copending Application No. 11/355,872 in view of Hennessy et al. (US 2004/0016702 A1; cited previously).

The instant claims 45, 80-82, and 87 are drawn to a method for purifying DNA sequencing reaction products using a plurality of particles having an ion-exchange core coated with a polyelectrolyte copolymer comprising at least one charged monomer and at least one neutral co-monomer.

Claims 12, 15, 21, 22, 29, 30, 33, and 34 of the '872 application recite a method for DNA sequencing comprising contacting sequencing reaction products with particles comprising an ion exchange core and a coating of a polyelectrolyte copolymer comprising at least one charged monomer and at least one neutral co-monomer, isolating the particles, and sequencing the

purified sequencing products. These claims of the '872 application recite all of the limitations of the instant claim 45 with the exception of providing a mixture of cationic and anionic ion exchange particles as required by the instant claim 45. Regarding the instant claims 80-82, claims 31 and 35 of the '872 application recite that the polyelectrolyte copolymer material has an average molecular weight of between about 1000 Da to about 6.0 MDa. This range overlaps with the instantly claimed ranges. The limitations of the instant claim 87 are recited in claims 28 and 32 of the '936 application.

It would have been *prima facie* obvious for one of ordinary skill in the art to provide a mixture of cationic and anionic ion-exchange particles when practicing the method recited in claims 12, 15, 21, 22, and 28-35 of the '872 application. An ordinary artisan would have been motivated to do so, because Hennessy taught that when a mixture of anionic and cationic ion exchange particles was used to purify a sample, the counterions of the anionic and cationic ion exchange particles reacted to form a neutral molecule, such as water, that did not affect downstream processing of the sample (see paragraph 77). Based on these teachings of Hennessy, an ordinary artisan would have recognized that using a mixture of cationic and anionic ion exchange particles to purify DNA sequencing reaction products would have improved the purification method recited in claims 12, 15, 21, 22, and 28-35 of the '872 application by neutralizing counterions released by the polyelectrolyte-coated anion exchange particles during the purification.

Also, regarding the instant claims 80-82, it would have been *prima facie* obvious for one of ordinary skill in the art at the time of invention to optimize the pore size of the ion-exchange material and the molecular weight of the polyelectrolyte copolymer material when practicing the

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method recited in claims 12, 15, 21, 22, and 28-35 of the '872 application. An ordinary artisan would have recognized that optimization of these results-effective variables was critical for successful practice of the method recited in claims 12, 15, 21, 22, and 28-35 of the '872 application, and therefore, would have been motivated to optimize the aforementioned results-effective variables using routine experimentation with a reasonable expectation of success. As noted in MPEP 2144.05, optimization of results-effective variables using routine experimentation is *prima facie* obvious in the absence of unexpected results. In this case, there is no evidence to suggest that the selection of the claimed volumes, pore sizes, molecular weights, or molar percentages was other than routine or that the results should be considered unexpected. Thus, the methods of claims 45, 80-82, and 87 are an obvious variant of the method recited in claims 12, 15, 21, 22, and 28-35 of copending application 11/355,872 in view of Hennessy in the absence of secondary considerations.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

12. Claims 45, 80-82, and 87 are directed to an invention not patentably distinct from claims 12, 15, 21, 22, and 28-35 of commonly assigned Application No. 11/355,872. Specifically, as discussed above, the instant claims 45, 80-82, and 87 are an obvious variant of the method recited in claims 12, 15, 21, 22, and 28-35 of the '872 application in view of Hennessy.

The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP Chapter 2300). Commonly assigned Application No. 11/355,872, discussed above, would form the basis for a

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rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(e), (f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee can, under 35 U.S.C. 103(c) and 37 CFR 1.78(c), either show that the conflicting inventions were commonly owned at the time the invention in this application was made, or name the prior inventor of the conflicting subject matter.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications pending on or after December 10, 2004.

Response to Amendment

13. Applicant's submission of a declaration under 37 CFR 1.132 on March 7, 2008 is acknowledged. Since the claim amendments prompted the withdrawal of the previously made rejections under 35 U.S.C. 103(a), the remarks contained in the declaration are moot, as they are not relevant to the new grounds of rejection presented above.

Response to Arguments

14. As noted above, all of the previously made rejections have been withdrawn in view of Applicant's amendments to the claims. Therefore, Applicant's arguments filed on March 7, 2008 regarding the rejections previously made under 35 U.S.C. 103(a) have been considered, but they are moot in view of the new grounds of rejection.

Applicant's indication (see page 14) that the provisional obviousness-type double patenting rejections citing co-pending applications 11/057,936 and 11/355,372 will be addressed when they have been formalized is noted. These rejections have been maintained in accordance with MPEP § 804.

Conclusion

15. No claims are currently allowable.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA BERTAGNA whose telephone number is (571)272-8291. The examiner can normally be reached on M-F, 7:30 - 5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth R Horlick/
Primary Examiner, Art Unit 1637

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